

Books of the Week

For the editorial information of our readers, books received for review since last week's issue are listed. For convenient purchase of any U. S. book in print, send a remittance to cover retail price (postage will be paid) to Book Department, Science Service, 1719 N Street, N.W., Washington 6, D. C. Request free publications direct from publisher, not from Science Service.

BIOLOGY OF THE LABORATORY MOUSE—George D. Snell, Ed.—*Dover*, 497 p., illus., \$6.00. A republication of a standard guide, compiled by the staff of the Roscoe B. Jackson Memorial Laboratory, which was originally published by Blakiston in 1941.

THE BOOK OF REPTILES AND AMPHIBIANS—Michael H. Bevens—*Garden City Books*, 63 p., illus., \$2.50. Describing and illustrating many of the reptiles and amphibians of the United States.

CALIFORNIA AND THE SOUTHWEST—Clifford M. Zierer, Ed.—*Wiley*, 376 p., illus., \$11.25. A comprehensive presentation of the geography of California, Nevada, Utah and Arizona, an area that comprises one-seventh of the United States.

A CLASSIFICATION OF THE FIRST INSTAR LARVAE OF THE MELOIDAE (COLEOPTERA)—J. W. MacSwain—*University of California Press*, 182 p., illus., paper, \$3.00. Based largely on the larvae, and including a study of the genera of the world and of all levels of classification for North American forms.

CRICKETS—Olive L. Earle—*Morrow*, 62 p., illus., \$2.00. The life cycle of this insect explained for children and anyone who has heard the chirp of the cricket.

DISEASES OF FRUIT CROPS—Harry Warren Anderson—*McGraw-Hill*, 501 p., illus., \$8.50. The major emphasis is on conditions as they exist in the United States and Canada.

ESSENTIAL UROLOGY—Fletcher H. Colby—*Williams & Wilkins*, 3rd ed., 656 p., illus., \$8.00. For students and residents and for those who are preparing for the examinations of the Board of Urology.

EXPLORING MARS—Roy A. Gallant—*Garden City Books*, 62 p., illus., \$2.00. With the close approach of Mars this September, interest in the "red planet" is great. This book gives in simple language many interesting facts and much of the history of the observation of our close planetary neighbor.

HISTORY OF ANALYTIC GEOMETRY—Carl B. Boyer—*Scripta Mathematica*, Studies No. 6 and 7, 291 p., \$6.00. Only those parts of analytic geometry that might be included in an elementary college course are covered. For this reason, developments of the last hundred years are largely omitted, since they are more advanced and more specialized.

A NEW COURSE OF PLANTS AND ANIMALS—M. A. Grigg—*Cambridge University Press*, Book I, 216 p., illus., \$1.50. A nature study guide for young people.

PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON THE PEACEFUL USES OF ATOMIC ENERGY: Volume 1, The World's Requirements for Energy: The Role of Nuclear Energy—*United Nations (Columbia University Press)*, 479 p., illus., \$8.00. Discussing the anticipated requirements for energy and the possible ways in which nuclear power can be used to overcome the shortage.

THE STARS BY CLOCK AND FIST—Henry M. Neely—*Viking*, 192 p., illus., \$4.00. Telling young people and any beginning amateur astronomer a way to locate and identify stars by using a simple star clock and one fist.

THE STRENGTH TO MEET OUR NATIONAL NEED—Charles G. Dobbins, Ed.—*American Council on Education*, 125 p., paper, \$1.50. A statement presented to the President's Committee on Education Beyond the High School, together with major addresses given at the conference.

VALENCY AND MOLECULAR STRUCTURE—E. Cartmell and G. W. A. Fowles—*Academic*, 256 p., illus., \$5.80. Written to provide an introductory text in which an elementary account of the development of the quantum theory is combined with a survey of its application to structural chemistry.

Science News Letter, August 18, 1956

BIOPHYSICS

Test Body's Reaction by Electromagnetic Method

► AN ELECTROMAGNETIC METHOD that measures blood flow by electromagnetic induction will be used in a long-range survey of the human body's response to physiological and psychological factors, disease and drugs.

The method was developed by Dr. Alexander Kolin of the U.C.L.A. department of biophysics. The survey will be conducted at the University of California Medical School, under a Los Angeles County Heart Association grant.

An organ's response to a great variety of factors is characterized by changes in blood flow through the organ. These changes, however slight, can be measured by placing the part of the body containing the artery that supplies the organ's blood in a magnetic field.

Electrodes embedded in small plastic sleeves, which fit around the blood vessel, pick up electrical signals induced in the moving blood. Signals are carried by wire to a recording system. The plastic sleeves can be implanted indefinitely in experimental animals.

It is planned to make a systematic study in this manner of the responses of all body organs to many factors. The project will enable U.C.L.A. scientists to test the effects of various drugs, as well as physiological and psychological stress, on such organs as the heart, brain and uterus.

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MODERN GREEK—34 languages available for FREE TRIAL AT HOME

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